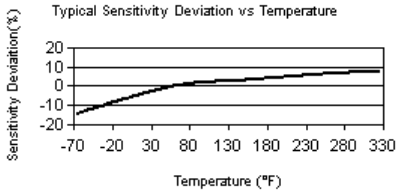
Model Number **352C03**	**ACCELEROMETER, ICP®**	Revision E ECN #: 25274

Performance	**ENGLISH**	**SI**	
Sensitivity (±10 %)	10 mV/g	1.02 mV/(m/s²)	
Measurement Range	±500 g pk	±4900 m/s² pk	
Frequency Range (±5 %)	0.5 to 10000 Hz	0.5 to 10000 Hz	
Frequency Range (±10 %)	0.3 to 15000 Hz	0.3 to 15000 Hz	
Resonant Frequency	≥50 kHz	≥50 kHz	
Broadband Resolution (1 to 10000 Hz)	0.0005 g rms	0.005 m/s² rms	[1]
Non-Linearity	≤1 %	≤1 %	[3]
Transverse Sensitivity	≤5 %	≤5 %	
Environmental			
Overload Limit (Shock)	±5000 g pk	±49000 m/s² pk	
Temperature Range (Operating)	-65 to +250 °F	-54 to +121 °C	[5]
Base Strain Sensitivity	0.003 g/με	0.029 (m/s²)/με	[1]
Electrical			
Excitation Voltage	18 to 30 VDC	18 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤100 Ohm	≤100 Ohm	
Output Bias Voltage	7 to 12 VDC	7 to 12 VDC	
Discharge Time Constant	1.0 to 2.5 sec	1.0 to 2.5 sec	
Settling Time (within 10% of bias)	<10 sec	<10 sec	
Spectral Noise (1 Hz)	110 µg/√Hz	1080 (µm/sec^2 /√Hz	
Spectral Noise (10 Hz)	25 µg/√Hz	245 (µm/sec^2 /√Hz	[1]
Spectral Noise (100 Hz)	8 µg/√Hz	78 (µm/sec^2 /√Hz	[1]
Spectral Noise (1 kHz)	4 µg/√Hz	39 (µm/sec^2 /√Hz	[1]
Physical			
Size (Height)	0.62 in	15.7 mm	
Weight	0.20 oz	5.8 gm	[1]
Sensing Element	Ceramic	Ceramic	
Size (Hex)	0.44 in	11.2 mm	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Side	Side	
Mounting Thread	10-32 Female	10-32 Female	
Mounting Torque	10 to 20 in-lb	113 to 226 N-cm	

CE[4]



Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

HT - High temperature, extends normal operation temperatures			[5]
Frequency Range (±5 %)	5 to 10000 Hz	5 to 10000 Hz	
Frequency Range (±10 %)	3 to 15000 Hz	3 to 15000 Hz	
Temperature Range (Operating)	-65 to +325 °F	-54 to +163 °C	
Excitation Voltage	22 to 30 VDC	22 to 30 VDC	
Discharge Time Constant	0.1 to 0.3 sec	0.1 to 0.3 sec	
Spectral Noise (1 Hz)	200 µg/√Hz	1962 (µm/sec^2 /√Hz	[1]
Spectral Noise (10 Hz)	30 µg/√Hz	294 (µm/sec^2 /√Hz	[1]
Output Bias Voltage	10 to 15 VDC	10 to 15 VDC	[2]

Supplied Accessory: Model ACS-68 Single Axis Amplitude Response Calibration from 5 Hz to upper 5% plotted on dB scale replaces Model ACS-1

J - Ground Isolated		
Frequency Range (5 %)	9000 Hz	9000 Hz
Frequency Range (10 %)	14000 Hz	14000 Hz
Resonant Frequency	≥40 kHz	≥40 kHz
Electrical Isolation (Base)	>10^8 Ohm	>10^8 Ohm
Size (Hex x Height)	0.44 in x 0.67 in	11.2 mm x 17.0 mm
Weight	0.21 oz	6.0 gm

T - TEDS Capable of Digital Memory and Communication Compliant with IEEE P1451.4

TLA - TEDS LMS International - Free Format

TLB - TEDS LMS International - Automotive Format

TLC - TEDS LMS International - Aeronautical Format		
Temperature Range (Memory Access)	-10 to +250 °F	-23 to +121 °C
Excitation Voltage	20 to 30 VDC	20 to 30 VDC
Output Bias Voltage	7.5 to 13 VDC	7.5 to 13 VDC

TLD - TEDS Capable of Digital Memory and Communication Compliant with IEEE 1451.4

W - Water Resistant Cable		
Electrical Connector	Sealed Integral Cable	Sealed Integral Cable
Electrical Connection Position	Side	Side

Notes

[1] Typical.
[2] TEDS option adds 1.0 VDC to bias voltage.
[3] Zero-based, least-squares, straight line method.
[4] See PCB Declaration of Conformance PS023 for details.
[5] 250° F to 325° F data valid with HT option only.

Supplied Accessories

080A Adhesive Mounting Base (1)
080A109 Petro Wax (1)
081B05 Mounting Stud (10-32 to 10-32) (1)
ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). ()
M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)

All specifications are at room temperature unless otherwise specified.
In the interest of constant product improvement, we reserve the right to change specifications without notice.
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Entered: BAM	Engineer: WDC	Sales: JJB		Spec Number:
Date: 11/09/2006	Date: 11/09/2006	Date: 11/09/2006		**16565**

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